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2. ELECTROPHORETIC DISPLAY DEVICE

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PROBLEM TO BE SOLVED: To increase the mobility rate of charged drifting particles.

SOLUTION: When a voltage in positive polarity is applied on a second electrode 5 while the drifting particles 3 are charged into positive polarity, the charged drifting particles 3 are adsorbed to a first electrode 4. When a voltage in negative polarity is applied on the second electrode 5, the charged drifting particles 3 are adsorbed to the second electrode 5. The movement of the charged drifting particles 3 is mainly caused by the electric field generated between the edge of the second electrode 5 (the edge of a part shown as a and b in Fig.(b)). Since the second electrode 5 has a frame-like form surrounding the first electrode 4, the edge length ($2a+2b$)

is made longer compared with an electrode not formed into a frame, and thereby, the mobility rate of the drifting particles 3 is increased.

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